

AMENDMENTS TO THE CLAIMS

Claims 1-7 (Canceled)

8. (New) FM modulator comprising:

a first light emitting device which emits a first frequency-modulated optical signal according to a first input signal;

a second light emitting device which emits a second frequency-modulated optical signal according to a second input signal;

a level adjusting portion which equates frequency deviation of said first and second frequency-modulated optical signals; and

an optoelectric conversion circuit which receives said first and said second frequency-modulated optical signals for heterodyne detection; and

wherein said second input signal has an inverted phase of said first input signal.

9. (New) FM modulating method comprising steps of:

a first light emitting step which emits a first frequency-modulated optical signal according to a first input signal;

a second light emitting step which emits a second frequency-modulated optical signal according to a second input signal;

a level adjusting step which equates frequency deviation of said first and second frequency-modulated optical signals; and

an optoelectric conversion step which receives and mixes said first and said second frequency-modulated optical signals for heterodyne detection; and

wherein said second input signal has an inverted phase of said first input signal.